

**APPENDIX 3.6A**

## **OEHHA/ARB Approved Risk Assessment Health Values**

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Table of OEHHA /ARB Approved Risk Assessment Health Values Used for AES Highgrove HHRA

Source: Consolidated Table of OEHHA/CARB Approved Risk Assessment Health Values – April 25, 2005

Compound	Cancer Risk		Non-cancer Effects	
	Inhalation Cancer Potency (mg/kg-day)	Oral Slope Factor ( $\mu\text{g}/\text{m}^3$ ) <sup>-1</sup>	Chronic Inhalation Reference Exposure Level ( $\mu\text{g}/\text{m}^3$ )	Acute Inhalation Reference Exposure Level ( $\mu\text{g}/\text{m}^3$ )
Ammonia	--	--	2.0 E+2	3.2 E+3
Acetaldehyde	1.0 E-2	--	9.0 E+0	--
Acrolein	--	--	6.0 E-2	1.9 E-1
Benzene	1.0 E-1	--	6.0 E+1	1.3 E+3
1,3-Butadiene	6.0 E-1	--	2.0 E1	--
Ethylbenzene	--	--	2.0 E+3	--
Formaldehyde	2.1 E-2	--	3.0 E+0	9.4 E+1
Hexane	--	--	7.0 E+3	--
Naphthalene	1.2 E-1	--	9.0E+0	--
PAH	3.9 E+0	1.2 E+1	--	--
Propylene Oxide	1.3 E-2	--	3.0 E+1	3.1 E+3
Toluene	--	--	3.0 E+2	3.7 E+4
Xylene	--	--	7.0 E+2	2.2 E+4
Arsenic	1.2 E+1	1.5 E+0	3.0 E-2	1.9 E-1
Copper	--	--	2.4 E+0	1.0 E+2
Nickel	9.1 E-1	--	5.0 E-2	6.0 E+0
Silver	--	--	--	--
Antimony	--	--	2.0 E-1	--
Beryllium	8.4 E+0	--	7.0 E-3	--
Cadmium	1.5 E+1	--	2.0 E-2	--
Chromium (total)*	5.1 E+2	--	2.0 E-1	--
Lead	4.2 E-2	8.5 E-3	--	--
Manganese	--	--	2.0 E-1	--
Mercury	--	--	9.0 E-2	1.8 e+0
Selenium	--	--	2.0 E+1	--
Zinc	--	--	3.5 E+1	--
Acrylonitrile	1.0 E+0	--	5.0 E+0	--
Allyl chloride	2.1 E-2	--	1.0 E+0	--
Bromomethane	--	--	5.0 E+0	3.9 E+3
2-Butanone	--	--	1.0 E+3	1.3 E+4
Carbon disulfide	--	--	8.0 E+2	6.2 E+3

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Compound	Cancer Risk		Non-cancer Effects	
	Inhalation Cancer Potency (mg/kg-day)	Oral Slope Factor ( $\mu\text{g}/\text{m}^3\text{-}1$ )	Chronic Inhalation Reference Exposure Level ( $\mu\text{g}/\text{m}^3$ )	Acute Inhalation Reference Exposure Level ( $\mu\text{g}/\text{m}^3$ )
Carbon tetrachloride	1.5 E-1	--	4.0 E+1	1.9 E+3
Chlorobenzene	--	--	1.0 E+3	--
Chloroethane	--	--	3.0 E+4	--
Chloroform	1.9 E-2	--	3.0 E+2	1.5 e+2
1,2-Dibromo-3-chloropropane	7.0 E+0	--	2.0 E-1	--
1,2-Dibromoethane	2.5 E-1	--	8.0 E-1	--
1,4-Dichlorobenzene	4.0 E-2	--	8.0 E+2	--
1,1-Dichloroethane	5.7 E-3	--	--	--
1,2-Dichloroethane	7.2 E-2	--	4.0 E+2	--
1,1-Dichloroethene	--	--	7.0 E+1	--
Methylene chloride	3.5 E-3	--	4.0 E+2	1.4 E+4
Methyl-t-butyl ether	1.8 E-3	--	8.0 E+3	--
Styrene	--	--	9.0 E+2	2.1 E+4
1,1,2,2-Tetrachloroethane	2.0 E-1	--	--	--
Tetrachloroethene	2.1 E-2	--	3.5 E+1	2.4 E+4
1,1,1-Trichloroethane	--	--	1.0 E+3	6.8 E+4
1,1,2-Trichloroethane	5.7 E-2	--	--	--
Trichloroethene	7.0 E-3	--	6.0 E+2	--
Vinyl chloride	2.7 E-1	--	2.6 E+1	1.8 E+5
o-Xylene	--	--	7.0 E+2	2.2 E+4
m-Xylene	--	--	7.0 E+2	2.2 E+4
p-Xylene	--	--	7.0 E+2	2.2 E+4

Source: OEHHA/CARB, 2005

\*Conservatively evaluated the risk for total chromium using the inhalation cancer potency and reference exposure levels for hexavalent chromium

mg/kg-day = milligrams per kilogram per day

$\mu\text{g}/\text{m}^3$  = micrograms per cubic meter